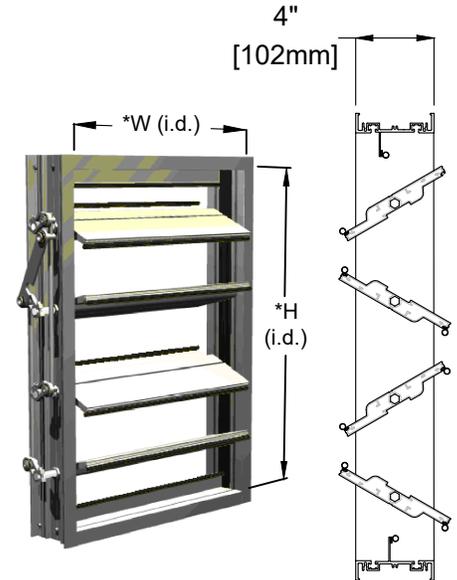


Design:

This damper is designed for air control applications. The CD-155, 156 is compliant with IECC with a leakage rating of 3 cfm / ft.² at 1" [25mm] w.g. of static pressure.

Standard Construction:		Optional:
Frame:	0.125" [3.18mm] Extruded alum.	-----
Blade:	Heavy duty double construction extruded aluminum	-----
**Blade Type:	Airfoil	-----
Linkage:	Aluminum and corrosion resistant zinc plated steel	Stainless Steel <small>(in lieu of zinc plated steel)</small>
Axle Bearing:	Celcon inner bearing fixed to an alum. hexagon blade pin rotating within polycarbonate outer bearing inserted in frame	-----
Axle Material:	$\frac{7}{16}$ " [11mm] Zinc Plated Steel	Stainless Steel
Blade & Jamb Seals:	TPV	Silicone



*Sizes are exact inside dimensions (I.D.)
 Minimum Size: 6"w x 7"h [152mm x 179mm](single blade)
 Maximum Size: 60"w x 72"h [1524mm x 1828mm] (single section)

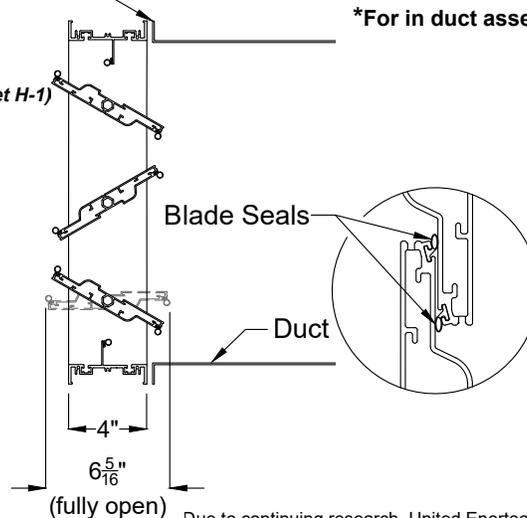
Temperature range: -20°F to 180°F (-29°C to 82°C) with TPV seals (std.)
 Temperature range: -40°F to 200°F (-40°C to 93.°C) with silicone seals

Maximum multi-section: Unlimited
 Dampers larger than single section maximum are furnished in an assembly of 48"w x 72" (1219mm x 1829mm) or less equal sized individual sections

Options:

- Hand Quadrant
- Factory Actuators
- Stand Off Bracket, 2" (See catalog sheet H-1)
- Face and By-pass Damper

Flange Mounted



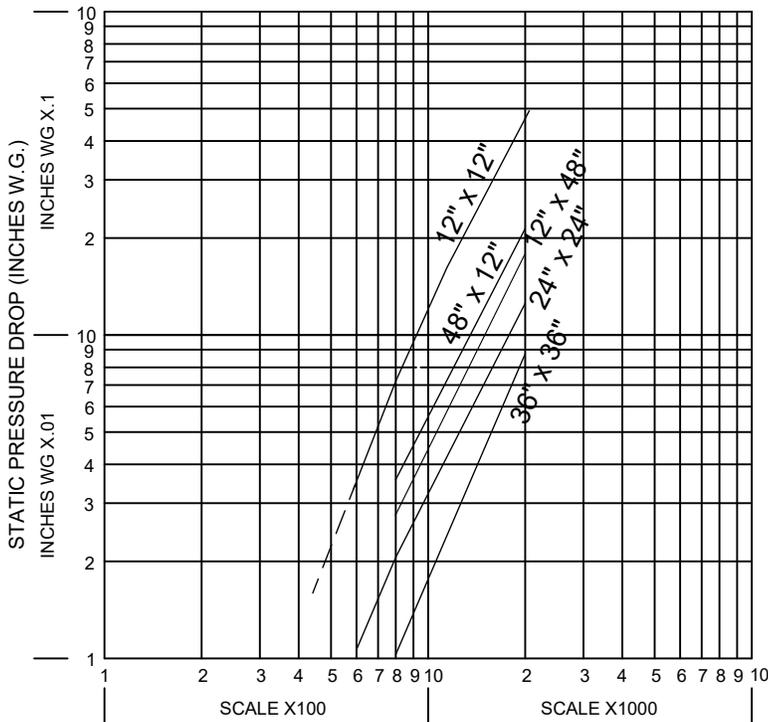
*For in duct assemblies, see in duct sizing guide (page A-12g)

Due to continuing research, United Enertech reserves the right to change specifications without notice.

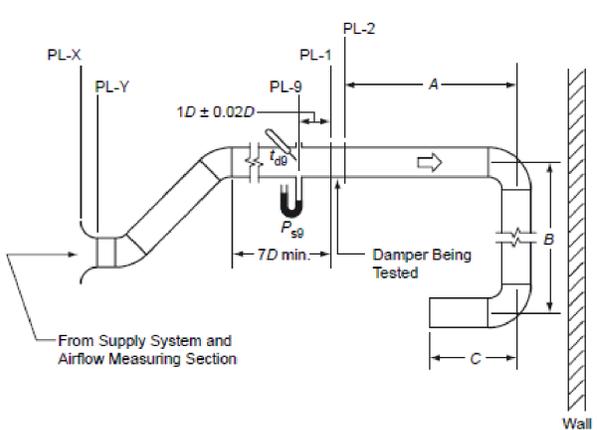
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Location:	<input type="checkbox"/> MODEL CD-156 (Parallel)		
Architect:	DRAWN BY:	DATE:	REV. DATE:
Engineer:	CLJ	March 2025	
Contractor:	REV. NO.	DWG. NO.:	
	0	A-8b	

MODEL CD-155,156 PERFORMANCE DATA

AIR FLOW RESISTANCE



CD-155,156 sizes: 12" x 12", 24" x 24", 48" x 12", 12" x 48", 36" x 36"
 (305 x 305mm, 610 x 610mm, 1219 x 305mm, 305 x 1219mm, 914 x 914mm)
 Pressure drop test per AMCA Standard 500-D, Figure 5.3.



AMCA Figure 5.3 Pressure Drop



United Enertech certifies that the CD-155 is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Rating Seal applies to Air Performance and Air Leakage ratings.



United Enertech certifies that the CD-156 is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Rating Seal applies to Air Performance ratings only.

12x12 Pressure Drop			
Face Velocity		Pressure Drop	
fpm	(m/s)	inches w.g.	(Pa)
591	3.01	0.03	7
800	4.08	0.07	17
1207	6.16	0.16	40
1611	8.22	0.30	75
2024	10.32	0.48	120

Pressure drop test per AMCA Standard 500-D, Figure 5.3.

48x12 Pressure Drop			
Face Velocity		Pressure Drop	
fpm	(m/s)	inches w.g.	(Pa)
398	2.03	0.008	2
801	4.09	0.03	7
1193	6.08	0.07	17
1596	8.14	0.13	32
1998	10.19	0.21	52

Pressure drop test per AMCA Standard 500-D, Figure 5.3.

24x24 Pressure Drop			
Face Velocity		Pressure Drop	
fpm	(m/s)	inches w.g.	(Pa)
599	3.05	0.01	2
800	4.08	0.02	5
1203	6.14	0.04	10
1601	8.17	0.08	20
2004	10.22	0.12	30

Pressure drop test per AMCA Standard 500-D, Figure 5.3.

36x36 Pressure Drop			
Face Velocity		Pressure Drop	
fpm	(m/s)	inches w.g.	(Pa)
595	3.03	0.005	1
792	4.04	0.01	2
1193	6.08	0.03	7
1590	8.11	0.05	12
1994	10.17	0.08	20

Pressure drop test per AMCA Standard 500-D, Figure 5.3.

12x48 Pressure Drop			
Face Velocity		Pressure Drop	
fpm	(m/s)	inches w.g.	(Pa)
390	1.99	0.005	1
798	4.07	0.02	5
1185	6.04	0.05	12
1586	8.09	0.10	25
2008	10.24	0.17	42

Pressure drop test per AMCA Standard 500-D, Figure 5.3.

MODEL CD-155 PERFORMANCE DATA (continued)

Imperial Units (CD-155, Forward Flow)

Damper Width X Height	1 in. w.g.	4 in. w.g.	8 in. w.g.	*Torque (per sq. ft.)
12" X 48"	Class 1	Class 1	Class 1	16.5 lbs-in
36" X 36"	Class 1A	Class 1	Class 1	13.3 lbs-in
60" X 36"	Class 1A	Class 1	Class 2	9.6 lbs-in

*Torque applied to close and seat damper in during the test.

Imperial Units (CD155, Reverse Flow)

Damper Width X Height	1 in. w.g.	4 in. w.g.	8 in. w.g.	*Torque (per sq. ft.)
12" X 48"	Class 1	Class 1	Class 1	16.5 lbs-in
36" X 36"	Class 1A	Class 1	Class 1	13.3 lbs-in
60" X 36"	Class 1A	Class 1	Class 1	9.6 lbs-in

*Torque applied to close and seat damper in during the test.

Metric Units (CD-155, Forward Flow)

Damper Width X Height	0.25 kPa	1.0 kPa	2.0 kPa	*Torque (per sq. m.)
305 X 1220	Class 1	Class 1	Class 1	20.2 N-m
915 X 915	Class 1A	Class 1	Class 1	16.1 N-m
1524 X 915	Class 1A	Class 1	Class 2	11.7 N-m

*Torque applied to close and seat damper in during the test.

Metric Units (CD-155, Reverse Flow)

Damper Width X Height	0.25 kPa	1.0 kPa	2.0 kPa	*Torque (per sq. m.)
305 X 1220	Class 1	Class 1	Class 1	20.2 N-m
915 X 915	Class 1A	Class 1	Class 1	16.1 N-m
1524 X 915	Class 1A	Class 1	Class 1	11.7 N-m

*Torque applied to close and seat damper in during the test.

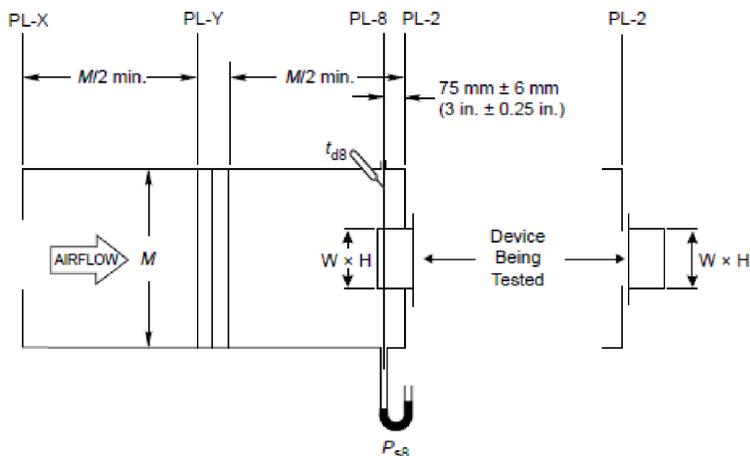
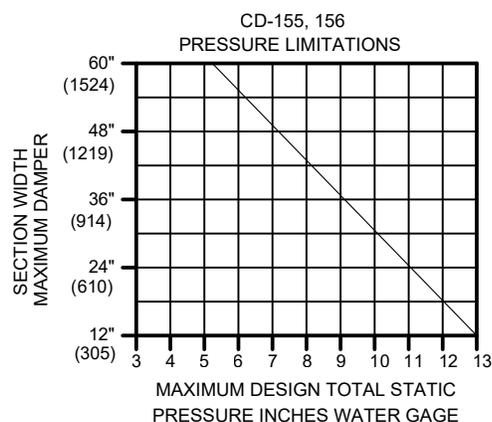
Air leakage is based on operation between 50° F to 104° F. All data corrected to represent air density of 0.075 lbs/ft³. Tested per AMCA Standard 500-D (leakage), figure 5.4 Alternate.

United Enertech certifies that the CD-155 is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Rating Seal applies to Air Performance and Air Leakage ratings.



Pressure Class	Leakage, ft ³ /min /ft ²			
	Required Rating	Extended Ranges (optional)		
	1"	4"	8"	12"
1A	3	n/a	n/a	n/a
1	4	8	11	14
2	10	20	28	35
3	40	80	112	140

All data corrected to represent standard air at a density of 0.075 lbs/ft³



AMCA Standard 500-D (leakage), figure 5.4 Alternate.